Docket No. AUS920010389US1

## ABSTRACT OF THE DISCLOSURE

## METHOD AND APPARATUS FOR AN IMPROVED BULK READ SOCKET CALL

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An apparatus and method for an improved bulk read socket call are provided. With the apparatus and method, a new field, so rcvlen, is added to the socket structure that identifies the bulk read size requested by the user. kernel of the prior art recv() function is also modified so that it sets the so\_rcvlen to the size requested by the user prior to the recv() function going to sleep and waiting for the full data size requested by the user. A new flag, SP\_MSGWAITALL, is also provided in the socket structure. In the TCP input processing, when data is received for a particular socket, the current setting of the SP\_MSGWAITALL is checked. If the SP\_MSGWAITALL flag is set, it is determined whether the amount of data stored in the socket receive buffer is less than the value of so\_rcvlen. If not, the TCP input processing does not wake up the recv() thread. However, for every alternate segment, the TCP input processing sends back an acknowledgment (ACK). In the TCP output processing, when the SP\_MSGWAITALL flag is set and the amount of data in the socket receive buffer is less than so\_rcvlen, the full window is advertised. Once the TCP input processing determines that there is at least an amount of data in the socket receive buffer equal to the value of so\_rcvlen, the TCP input processing will wake up the recv() thread and the SP\_MSGWAITALL flag is reset.